

WHAT IS CLAIMED IS:

1. An apparatus for authoring multimedia documents, comprising:
 - a template document floating field detecting unit that detects a floating field of a template document, which is an incomplete multimedia document having a fixed field in addition to the floating field, by parsing a control document including information identifying the floating field and a list of selectable objects;
 - a control document outputting unit that renders and outputs the control document;
 - a user selection information receiving unit that receives information selected by a user with respect to the control document output from the control document outputting unit; and
 - a multimedia document completing unit that completes the template document as a multimedia document by fixing the floating field detected by the template document floating field detecting unit to be an object designated by the information selected by the user among the list of selectable objects when the information selected by the user is received through the user selection information receiving unit.

2. The apparatus for authoring multimedia documents according to claim 1, further comprising a template document outputting unit that renders and outputs the template document.

3. The apparatus for authoring multimedia documents according to claim 1, wherein the fixed field, which includes information on a document structure and at least one default multimedia file, cannot be selected by the user, and the floating field, which includes multimedia file information on at least one multimedia file, can be selected by the user.

4. The apparatus for authoring multimedia documents according to claim 3, further comprising a user construction information receiving unit that receives user construction information from the user when the information selected by the user is received through the user selection information receiving unit and the multimedia file information designated by the information selected by the user is the user construction information.

5. The apparatus for authoring multimedia documents according to claim 3, wherein if the template document is constructed in SMIL (Synchronized Multimedia Integration Language), the document structure includes one or more predetermined elements and one or more predetermined

attributes of the predetermined elements and the multimedia file information includes one or more identification codes of the predetermined elements and one or more values of the predetermined attributes.

6. The apparatus for authoring multimedia documents according to claim 5, wherein if the control document is constructed in XML (Extensible Markup Language), the information for identifying the floating field includes the identification codes of the predetermined elements and the list of selectable objects is comprised of a list of values of predetermined attributes of the predetermined elements.

7. An apparatus for authoring multimedia messages, comprising:

a template document floating field detecting unit that detects a floating field of a template document, which is an incomplete multimedia document having a fixed field in addition to the floating field, by parsing a control document including information identifying the floating field and a list of selectable objects;

a control document outputting unit that renders and outputs the control document;

a user selection information receiving unit that receives information selected by a user with respect to the control document output from the control document outputting unit;

a multimedia message completing unit that completes the template document as a multimedia message by fixing the floating field detected by the template document floating field detecting unit to be an object designated by the information selected by the user among the list of selectable objects, when the information selected by the user is received through the user selection information receiving unit;

a multimedia message outputting unit that renders and outputs the multimedia message completed by the multimedia message completing unit when a preview function is selected by the user; and

a multimedia message transmitting unit that transmits the output multimedia message to a terminal having a reception number when the user selects the multimedia message output from the multimedia message outputting unit and inputs the reception number.

8. The apparatus for authoring multimedia messages according to claim 7, further comprising a template document outputting unit that renders and outputs the template document.

9. The apparatus for authoring multimedia messages according to claim 7, wherein the fixed field, which includes information on a document structure and at least one default multimedia file, cannot be selected by the user, and the floating field, which includes multimedia file information on at least one multimedia file, can be selected by the user.

10. The apparatus for authoring multimedia messages according to claim 9 further comprising a user construction information receiving unit that receives user construction information from the user when the information selected by the user is received through the user selection information receiving unit and the multimedia file information designated by the information selected by the user is the user construction information.

11. The apparatus for authoring multimedia messages according to claim 7, wherein if the template document and the control document are independent from one another, the template document floating field detecting unit recognizes the control document by parsing the template document.

12. The apparatus for authoring multimedia messages according to claim 11, wherein if the template document is constructed in SMIL (Synchronized Multimedia Integration Language), the template document

floating field detecting unit determines whether the template document is the control document using a name attribute value of a meta element and recognizes the file name of the control document using a content attribute value of the meta element.

13. The apparatus for authoring multimedia messages according to claim 11, further comprising:

a template document receiving unit that receives the template document from a server if the template document is not found in a database when the user selects the template document;

a control document receiving unit that receives the control document from the server if the control document is not found in the database; and

a multimedia file receiving unit that receives a multimedia file designated by the multimedia file information from the server if the multimedia file is not found in the database.

14. The apparatus for authoring multimedia messages according to claim 7, wherein if the control document includes the template document, the template document floating field detecting unit recognizes the template document by parsing the control document.

15. The apparatus for authoring multimedia messages according to claim 14, wherein if the control document is constructed in XML (Extensible Markup Language), the template document floating field detecting unit recognizes the template document using an SMIL tag of the control document constructed in XML.

16. The apparatus for authoring multimedia messages according to claim 14, further comprising:

a control document receiving unit that receives the control document from a server if the control document is not found in a database when the user selects the template document, and

a multimedia file receiving unit that receives a multimedia file designated by multimedia file information from the server if the multimedia file is not found in the database.

17. A method of authoring multimedia documents, comprising the steps of:

(a) detecting a floating field of a template document, which is an incomplete multimedia document having a fixed field in addition to the floating field, by parsing a control document including information identifying the floating field and a list of selectable objects;

(b) rendering and outputting the control document;

(c) receiving information selected by a user with respect to the output control document; and

(d) completing the template document as a multimedia document by fixing the detected floating field to be an object designated by the information selected by the user among the list of selectable objects, when the information selected by the user is received in step (c).

18. The method of authoring multimedia documents according to claim 17, further comprising the step of rendering and outputting the template document, before step (b).

19. The method of authoring multimedia documents according to claim 17, wherein the fixed field, which includes information on a document structure and at least one default multimedia file, cannot be selected by the user, and the floating field, which includes multimedia file information on at least one multimedia file, can be selected by the user.

20. The method of authoring multimedia documents according to claim 19, further comprising the step of receiving user construction information from the user when the information selected by the user is

received in step (c) and the multimedia file information designated by the information selected by the user is the user construction information, before step (d).

21. The method of authoring multimedia documents according to claim 19, wherein if the template document is constructed in SMIL (Synchronized Multimedia Integration Language), the document structure includes one or more predetermined elements and one or more predetermined attributes of the predetermined elements and the multimedia file information includes one or more identification codes of the predetermined elements and one or more values of the predetermined attributes.

22. The method of authoring multimedia documents according to claim 21, wherein if the control document is constructed in XML (Extensible Markup Language), the information for identifying the floating field includes the identification codes of the predetermined elements and the list of selectable objects is comprised of a list of values of predetermined attributes of the predetermined elements.

23. A method of authoring multimedia messages, comprising the step of:

- (a) detecting a floating field of a template document, which is an incomplete multimedia document having a fixed field in addition to the floating field, by parsing a control document including information identifying the floating field and a list of selectable objects;
- (b) rendering and outputting the control document;
- (c) receiving information selected by a user with respect to the output control document;
- (d) completing the template document as a multimedia message by fixing the detected floating field to be an object designated by the information selected by the user among the list of selectable objects, when the information selected by the user is received in step (c);
- (e) rendering and outputting the completed multimedia message when a preview function is selected by the user; and
- (f) transmitting the output multimedia message to a terminal having a reception number when the user selects the output multimedia message and inputs the reception number.

24. The method of authoring multimedia messages according to claim 23, further comprising the step of rendering and outputting the template document, before step (b).

25. The method of authoring multimedia messages according to claim 23, wherein the fixed field, which includes information on a document structure and at least one default multimedia file, cannot be selected by the user, and the floating field, which includes multimedia file information on at least one multimedia file, can be selected by the user.

26. The method of authoring multimedia messages according to claim 25, further comprising the step of receiving user construction information from the user when the information selected by the user is received in step (c) and the multimedia file information designated by the information selected by the user is the user construction information, before step (d).

27. The method of authoring multimedia messages according to claim 23, wherein if the template document and the control document are independent from one another, step (a) includes recognizing the control document by parsing the template document.

28. The method of authoring multimedia messages according to claim 27, wherein if the template document is constructed in SMIL (Synchronized Multimedia Integration Language), step (a) includes

determining whether the template document is the control document using a name attribute value of a meta element and recognizing the file name of the control document using a content attribute value of the meta element.

29. The method of authoring multimedia messages according to claim 27, further comprising before step (a), the steps of:

receiving the template document from a server if the template document is not found in a database when the user selects the template document;

receiving the control document from the server if the control document is not found in the database; and

receiving a multimedia file designated by the multimedia file information from the server if the multimedia file is not found in the database.

30. The method of authoring multimedia messages according to claim 23, wherein if the control document includes the template document, step (a) includes recognizing the template document by parsing the control document.

31. The method of authoring multimedia messages according to claim 30, wherein if the control document is constructed in XML (Extensible

Markup Language), step (a) includes recognizing the template document using an SMIL tag of the control document constructed in XML.

32. The method of authoring multimedia messages according to claim 30, further comprising before step (a), the steps of:

receiving the control document from a server if the control document is not found in a database when the user selects the template document; and

receiving a multimedia file designated by the multimedia file information from the server if the multimedia file is not found in the database.

33. A computer readable recording medium that stores a program for the computer to implement the method claimed in any one of claims 17 to 32.